PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PCT-05T-210		FOR FURTHER	ACTION	See Form PCT/IPEA/416			
Internati	ional application No.	International filing	date (day/month/year)	Priority date (day/month/year)			
PCT/JP2005/007673		73 22.04.20	05	27.07.2004			
Internati	ional Patent Classification ((IPC) or national classification an	d IPC				
C02	F1/46, D06F3	9/00, 39/08					
	,,	,					
Applica	nt						
SHA	RP KABUSHIKI	KAISHA					
1.	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority						
		smitted to the applicant according					
2.	This REPORT consists of	f a total of	sheets, including thi	sheets, including this cover sheet.			
3.		panied by ANNEXES, comprising	g:				
	a. (sent to the ap	oplicant and to the International I	Bureau) a total of 6	sheets, as follows:			
				amended and are the basis for this report and/or			
	Instructi		by this Authority (see Ru	ale 70.16 and Section 607 of the Administrative			
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental						
	Box.						
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))						
	, containing a sequence listing and/or tables						
	related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4.	This report contains indic	cations relating to the following ite	ems:				
Box No. I Basis of the report							
	Box No. II	Priority					
	Box No. III	Non-establishment of opinion wi	th regard to novelty, invent	tive step and industrial applicability			
	Box No. IV	Lack of unity of invention					
Box No. V Reasoned statement under Article 35(2) with regard to citations and explanations supporting such statement			elty, inventive step or industrial applicability;				
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the international	al application				
	Box No. VIII	Certain observations on the interest	national application				
Date of submission of the demand		Date of completion of th	nis report				
Date of submission of the domain		_ are or completion of the	-				
Name and mailing address of the IPEA/JP			Authorized officer				
Traine and maring address of the 11 27 57		. Istilotized Office					
Fagginila No		Talanhana Na					

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International application No.
PCT/JP2005/007673

Box	x No. I	Basis of the report			
1.	With	h regard to the language, this report is based on:			
	\boxtimes	the international application in the language in which	h it was filed		
		the translation of the international application into translation furnished for the purposes of:		, which is the language of a	
		international search (Rule 12.3(a) and 23.1(b))		
		publication of the international application (R	ule 12.4(a))		
		international preliminary examination (Rule 5	5.2(a) and/or 55.3(a))		
2.	recei	h regard to the elements of the international applicati iving Office in response to an invitation under Artic report):			
		the international application as originally filed/furni	shed		
	\bowtie	the description:			
		pages1,2,5-18		as originally filed/furnished	
		pages* 3-4	received by this Authority on	2005.11.02	
		pages*	received by this Authority on		
	\boxtimes	the claims:			
		nos. 7,11,13		as originally filed/furnished	
		nos.*	as amended (togethe	r with any statement) under Article 19	
		nos.* 1-6,8-10,12,14-16	received by this Authority on	2005.11.02	
			received by this Authority on		
	\boxtimes	the drawings:			
		sheets 1-7 , 9-12		as originally filed/furnished	
		sheets* 8			
		sheets*			
		·			
		a sequence listing and/or any related table(s) – see S		isting.	
3.		The amendments have resulted in the cancellation o	1:		
		the description, pages			
		the claims, nos. 17			
		the drawings, sheets/figs			
		the sequence listing (specify):			
		any table(s) related to sequence listing (specif	· · ·		
4.		This report has been established as if (some of) the they have been considered to go beyond the disclose			
		the description, pages			
		the claims, nos.			
		the drawings, sheets/figs			
		the sequence listing (specify):			
		any table(s) related to sequence listing (specify	·y):		
*	If item 4 applies, some or all of those sheets may be marked "superseded."				

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Вох			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-16	YES
		Claims		NO
	Inventive step (IS)	Claims	1-16	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-16	YES
		Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 2002-81121 A (Toto Co., Ltd.), 22 March 2002, column 2, lines 40 to 42; column 2, line 50 to column 3, line 41; column 4; column 35, line 2; column 5, lines 17 to 19; column 5, lines 28 to 31; column 5, lines 44 to 48; column 6, lines 31 to 46 (Family: none)
 - Document 2: JP 2000-126775 A (Toto Co., Ltd.), 9 May 2000, column 3, lines 5 to 17; column 4, lines 17 to 24 (Family: none)
 - Document 3: JP 2002-219463 A (Mitsubishi Plastics, Inc.), 6 August 2002, column 3, lines 6 to 25 (Family: none)
 - Document 4: JP 2004-173717 A (Sharp Corporation), 24 June 2004, page 2, line 50 to page 3, line 16 & WO 2004/045278 A1 & KR 004045340 A

The inventions set forth in claims 1 to 16 involve an inventive step. It would not be easy for a person skilled in the art to conceive of a "metal ion elution unit, wherein the period of time from when the polarity of the voltage is inverted to when the subsequent inversion of polarity of the voltage occurs is divided up

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
into a first mode and a second mode, and the current in
the second mode is smaller than the current in the first
mode".